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APPLICATION NO.		FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
	10/749,483	10/749,483 12/31/2003		Michael S. Collins	ZIM0391	1206		
	John F. Hoffma	7590 an, Esg.	08/16/2007		EXAM	EXAMINER		
		AKER & DANIELS LLP			RAMANA, ANURADHA			
	111 East Wayn	e Street		•	ART UNIT	PAPER NUMBER		
	Fort Wayne, IN 46802				3733			
	•				****			
		•			MAIL DATE	DELIVERY MODE		
			*		08/16/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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		Application	on No.	Applicant(s)					
			3	COLLINS ET AL.					
	Office Action Summary	Examiner		Art Unit					
		Anu Rama	•	3733					
Period fo	The MAILING DATE of this communication a or Reply	appears on the	cover sheet with the c	orrespondence ad	ldress				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
1)[X]	Responsive to communication(s) filed on 17	7 May 2007	,						
-	2a) ☐ This action is FINAL . 2b) ☐ This action is non-final.								
·	, -			secution as to the	e merits is				
-/	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
4)🖂	Claim(s) <u>1,3,4,8-19 and 21-26</u> is/are pendin	g in the applic	ation.						
	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)🖾	☑ Claim(s) 17-19 and 25 is/are allowed.								
6)⊠	Claim(s) 1,3,4,8-16,21-24 and 26 is/are reje	ected.							
7)	Claim(s) is/are objected to.								
	Claim(s) are subject to restriction an	d/or election r	equirement.						
Applicati	ion Papers								
9)[]	The specification is objected to by the Exam	iner.							
	•		ccepted or b) object	ed to by the Exan	niner.				
,—	10) ☑ The drawing(s) filed on <u>31 December 2003</u> is/are: a) ☑ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)	The oath or declaration is objected to by the	Examiner. No	ote the attached Office	Action or form P	TO-152.				
Priority u	under 35 U.S.C. § 119								
-	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
	1. Certified copies of the priority docum	ents have bee	n received.						
	2. Certified copies of the priority docum	ents have bee	n received in Applicati	on No					
	3. Copies of the certified copies of the priority documents have been received in this National Stage								
	application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.									
Attachment(s)									
	e of References Cited (PTO-892)		4) Interview Summary						
	ce of Draftsperson's Patent Drawing Review (PTO-948)		Paper No(s)/Mail Di						
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:									

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

Claims 1, 3-4, 8-16 and 21-23 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 1, 8 and 21 it is unclear what is being claimed. If the first and second components are engageable in a direct self-locking taper relationship, it is unclear why a sleeve is necessary.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

In light of the rejection under 35 USC 112 second paragraph, claims 1, 3 and 4 are rejected under 35 U.S.C. 102(e) as being anticipated by Pfaff et al. (US 6,607,560).

Pfaff et al. disclose a modular joint prosthesis having a first component 3 with a female junction element 4 and a second component 2 with a male junction element 5

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receivable within the female junction element and a hollow resilient sleeve 4 that is capable of being rolled upon itself in a ring-like configuration (Figs. 1 and 2, col. 2, lines 22-30, col. 3, lines 3-14 and col. 4, lines 12-36).

In light of the rejection under 35 USC 112 second paragraph, claims 1, 3, 4, 8, 10, 14-16, 21, 23 and 26 are rejected under 35 U.S.C. 102(e) as being anticipated by Bunz (US 6,802,866).

Bunz discloses a modular joint prosthesis having a first component 3 with a female junction element and a second component 2 with a male junction element receivable within the female junction element in a self-locking taper relationship and a hollow resilient sleeve 6 that is capable of being rolled upon itself in a ring-like configuration (Figs. 1-11, col. 3, lines 21-67 and col. 4, lines 1-21).

The method steps of claim 21 are inherently performed when the Bunz prosthesis is assembled.

In light of the rejection under 35 USC 112 second paragraph, claims 8-10, 13, 14, 16, 21 and 23 are rejected under 35 U.S.C. 102(b) as being anticipated by Averill et al. (US 4,921,500).

Averill et al. disclose a modular orthopedic implant having a femoral stem or "first component" 10 with a male junction element 18 and a femoral head component or "second component" 20 with a female junction element 32 and an adaptor or "hollow sleeve" 40 with grooves 66 extending circumferentially around the outer surface 52 of the sleeve that maintain the first and second components in an assembled condition wherein the stem and head components are made of a biocompatible metal (Fig. 3, col. 3, lines 16-68, col. 4 and col. 5, lines 1-51).

The method steps of claim 21 are inherently performed when the Averill et al. modular implant is assembled together.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 9, 11 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bunz (US 6,802,866) in view of Draenert (US 6,682,566).

Bunz discloses all the elements of the claimed invention except for providing the components in a variety of sizes in kit form so that the components can be custom fitted to a patient during a surgical procedure.

Draenert teaches providing a modular prosthesis with components having different sizes so that the prosthesis can be assembled for a specific patient (Fig. 1, col. 2, lines 46-67, cols. 3-4 and col. 5, lines 1-20).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have provided the Bunz components in a variety of sizes, i.e., provisional components, as taught by Fallin, so that the components can be custom fitted to a patient during a surgical procedure.

Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bunz (US 6,802,866) in view of McLean (US 2002/0116068).

Bunz discloses all the elements of the claimed invention except for the use of a polymer to construct either the male or the female junction elements.

McLean teaches the use of synthetic materials such as metals, ceramics or plastics to construct prosthetic components (para [0053]).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have made the Bunz components of metal and polymer, since it has been held to be within the general skill of a worker in the art to select a known

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material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416.

Claim 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over Pfaff et al. (US 6,607,560) in view of Fallin (US 5,108,452).

Pfaff et al. disclose all the elements of the claimed invention except for providing the components in a variety of sizes in kit form so that the components can be custom fitted to a patient during a surgical procedure.

Fallin teaches providing various prosthesis components in kit form so that a prosthesis can be custom fitted to a patient by a surgeon (Fig. 1 and col. 1, lines 12-39).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have provided the Pfaff et al. components in a variety of sizes, i.e., provisional components, as taught by Fallin, so that the components can be custom fitted to a patient during a surgical procedure.

Claim 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over Averill et al. (US 4,921,500) in view of Fallin (US 5,108,452).

Averill et al. disclose all the elements of the claimed invention except for providing the components in a variety of sizes in kit form so that the components can be custom fitted to a patient during a surgical procedure.

Fallin teaches providing various prosthesis components in kit form so that a prosthesis can be custom fitted to a patient by a surgeon (Fig. 1 and col. 1, lines 12-39).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have provided the Averill et al. components in a variety of sizes, i.e., provisional components, as taught by Fallin, so that the components can be custom fitted to a patient during a surgical procedure.

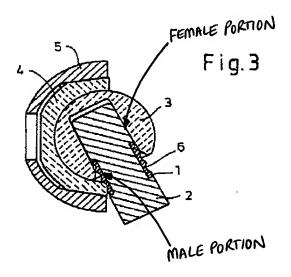
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Response to Arguments

Applicants' arguments submitted under "REMARKS" in the response filed on May 17, 2007 have been fully considered.

Applicants' arguments with respect to the rejections over Pfaff et al. (US 6,607,560) are not persuasive because it is unclear what is being claimed. If the sleeve is necessary to hold the trial components together then how can the components be engageable in a direct, self-locking taper relationship?

Regarding the rejections of claims 1,3, 4, 8, 10, 14-16, 21, 23 and 26 as being anticipated by Bunz, it is noted that Fig. 3 of Bunz clearly shows a modular orthopedic implant having a first component with a male junction element having a tapered male portion and a second component with a female junction element having a tapered bore corresponding to the male portion wherein sleeve 6 has at least an outer portion or part that is engageable or "capable of engaging" with the female portion and an inner portion or part that is engageable or "capable of engaging" with the male portion. Figure 3 of Bunz is marked up below to illustrate features of Applicant's claimed invention.



Applicants' arguments with respect to the rejections of claims 8-10, 13-14, 16, 21 and 23 are not persuasive in light of the rejections under 35 USC 112 second paragraph.

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Allowable Subject Matter

Claims 17-19 and 25 are allowed.

Claim 22 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anu Ramana whose telephone number is (571) 272-4718. The examiner can normally be reached Monday through Friday between 8:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eduardo Robert can be reached at (571) 272-4719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AR August 13, 2007

> ANURADHA RAMANA PRIMARY EXAMINER TECHNOLOGY CENTER 3700